

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A dummy instrument for use in a simulator, the instrument comprising: a control body with user manipulatable angulation control, an insertion tube and an umbilical having a proximal end extending from the control body, and a distal end at the opposite end, and at least one angulation cable movable by the angulation control and extending from the user manipulatable angulation control, and down within the umbilical, the umbilical being releasably attached at its distal end to a main unit, a motor within the instrument at a distal end of the umbilical to apply a variable force to the cable, and a position detector within the instrument to detect the angular position of the angulation control.
2. (Original) An instrument according to claim 1, wherein the position detector measures the rotation of the control.
3. (Original) An instrument according to claim 1, wherein the position detector measures the displacement of the cable.
4. (Original) An instrument according to claim 3, wherein the position detector is located at the distal end of the umbilical.
5. (Previously presented) An instrument according to 1, wherein the instrument is provided with two pairs of angulation cables each pair forming a loop around the control body, and around a respective motor at the distal end of the umbilical.
6. (Previously presented) An instrument according to claim 5, wherein means are provided to retension each of the loops.

7. (Previously presented) An instrument according to claim 1, wherein a connector at the distal end of the umbilical is configured to provide a two-part release, allowing release to a partially released position in which the umbilical may be rotated relative to the base unit, but in which the weight of the umbilical is still supported by the base unit, and a second fully released position in which the umbilical is completely releasable from the base unit.
8. (Previously presented) An instrument according to claim 1, wherein the position of each angulation cable is sensed by a combination of a low resolution absolute position detector and a higher resolution incremental encoder.